

Summary of Funding Information

Summary of Funding Information

Template Name	BY2020
Is this investment a consolidated business case?	No
Consolidated Business Case Parent Investment(s)	
Investment Name	BFS - Budget Formulation System
Investment Revision Number	33
Point of Contact	Chin, Derek
Revision Comment	
Full UPI/UII Code	020-000010070 00-00-02-16-02-00
OMB Short Description	Budget Formulation System (BFS) formerly titled New Budget Formulation System (NBFS) will be EPA's future budgeting system . Budget Automation System (formerly titled Budget Formulation System) is EPA's current budgeting system. Development began in 2014.
<p>Briefly describe the investment's purpose, goals, and current or anticipated benefits (quantitative and/or qualitative). Include the investment's specific contribution to mission delivery or agency management support functions and identify key customers, stakeholders, and other beneficiaries.</p> <p>OCFO is replacing the BAS system with the Budget Formulation System with development having begun in 2014. The purpose of the Budget Formulation System will be to provide an integrated budgeting and performance management system for the entire agency, with the goal of supporting the development of congressional justifications, OMB submissions, operating plans, and other important budget functions the offices of the agency require. The project is also of interest to other federal agencies and we will work with them to review requirements to potentially develop a service provider version. The primary beneficiaries include, the agency, OMB, and Congress, and other federal agencies if successful in building partnerships.</p> <p>Development of new software began in 2014. Benefits of the application include its accessibility through a web application and a user friendly flexible structure. Currently, EPA uses an infrastructure/platform-as-a-service cloud environment. The system is designed to provide the option of being used by other agencies. O&M costs incurred beginning in 2016.</p>	
How does the investment support EPA's Mission, Strategic Goals, Sub-Objectives, Program Activities and Objectives?	
Investment BY2014 Summary/Description	
Is the investment 508 compliant?	

Explain why not or how this is being done? (508
Compliance)

BY 2014 EPA Exhibit 200: BFS - Budget Formulation System (Revision 33)

Life Cycle Costs FOR PROJECT STAGES

* Costs in thousands

	PY - 6 2012 and Prior	PY - 5 2013	PY - 4 2014	PY - 3 2015	PY - 2 2016	PY - 1 2017	PY 2018	CY 2019	BY 2020	BY + 1 2021	BY + 2 2022	BY + 3 2023	BY + 4 2024	BY + 5 2025	BY + 6 2026	BY + 7 2027	BY + 8 2028 and Beyond	Total
Planning Costs																		
Budgetary Resources	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	0	700
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DME (Excluding Planning) Costs																		
Budgetary Resources	0	0	500	998	0	500	500	500	0	0	0	0	0	0	0	0	0	2998
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Planning Govt. FTE Costs																		
Budgetary Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DME (Excluding Planning) Govt. FTE Costs																		
Budgetary Resources	0	0	95	267	278	284	283	283	77	25	25	25	25	25	25	25	0	1742
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total DME Costs (Including Govt. FTE)																		
Budgetary Resources	0	0	595	1265	278	784	783	783	77	125	125	125	125	125	125	125	0	5440
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O&M Costs																		
Budgetary Resources	0	0	0	0	1160	850	850	850	1160	1250	1250	1250	1250	1250	1250	1250	0	13620
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disposition Costs (optional)																		
Budgetary Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O&M Govt. FTE Costs																		
Budgetary Resources	0	0	0	0	0	212	211	211	310	275	275	275	275	275	275	275	0	2869
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total O&M Costs (Including Govt. FTE)																		
Budgetary Resources	0	0	0	0	1160	1062	1061	1061	1470	1525	1525	1525	1525	1525	1525	1525	0	16489
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Cost (Including Govt. FTE costs)																		
Budgetary Resources	0	0	595	1265	1438	1846	1844	1844	1547	1650	1650	1650	1650	1650	1650	1650	0	21929
Proposed Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Government FTE Costs																		
Budgetary Resources	0	0	95	267	278	496	494	494	387	300	300	300	300	300	300	300	0	4611
PY President's Budget																		
Total Budget (\$)							0	0										
Total Change (\$)							1844	1844										
Total Change (%)							0	0										

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BY 2014 Internal Summary of Funding Estimates Table
(include non-pay and pay dollars)

Funding Type	2014	2015
Planning		
DME (excluding Planning)		
OM		

In which year did or will this investment begin? (Specify 2014
year - e.g., 2013)?

In which year will this investment reach the end of its 2030
estimated useful life? (specify year - e.g., 2021)

Additional Questions

Business Reference Model (BRM) Mapping

Service Code Mapping

Integrated Program Team (IPT) Contact Information

OMB ID	IPT Member Role	Title	Name	Phone Number	Extension	Email	Include In OMB Dashboard
	IT PM		Chin, Derek J	2025641895		chin.derek@epa.gov	Omit Synchronization
	Business Process Owner		Terris, Carol	2025640533		terris.carol@epa.gov	Omit Synchronization
	Contract Specialist		Herzfeld, Jackye	2025644599		herzfeld.jackye@epa.gov	Omit Synchronization
	IT Specialist		Herzfeld, Jackye	2025644599		herzfeld.jackye@epa.gov	Omit Synchronization
	Security Specialist		Kim, Eric	2025646203		kim.eric@epa.gov	Omit Synchronization

Primary Strategic Goal

Multiple-Goal IT Investments

Cross-Cutting Fundamental Strategies

Did you conduct an alternatives analysis for this investment?

Yes

If yes, describe the results of the alternatives analysis.

Two rounds of alternative analysis were performed. One under the auspices of OMB's Budget Line of Business activity, which looks at systems across the federal government. The other was a more tailored EPA-specific analysis.

Other existing government and private sector systems were looked at as options by the EPA, but no other systems met EPA's requirements other than the current BAS or the new Budget Formulation System. Development of Budget Formulation System is a preferred option. Alternatives described, below.

If no analysis is planned, please briefly explain why:

List and describe three alternatives identified for this investment (may include Status Quo).

1. Status Quo - Will require using Citrix to maintain usability when the EPA transitions to Windows 7. However, there are other issues associated with the software, and replacement is preferred over using existing oracle versions that have ongoing software problems. In addition, there are functionality enhancements the EPA needs that will provide significant efficiencies in staff time, and also enable offices to eliminate local systems. In addition, the current system is written to interact with Lotus Notes database which is currently being migrated to the Microsoft suite of tools. The status quo is becoming less of a viable option due to supporting applications and inherent outdated technologies.

2. Rewrite and update - As described above, enhancements in functionality have been identified by the EPA that will save significant staff time, and provide an enterprise solution that replaces a number of locally maintained smaller systems. Other agencies have indicated interest in using a system with the functions in EPA's BAS / BFS if configured to their budget structures. The Budget Formulation System is being offered as a Shared Service to other agencies while utilizing the cloud hosting model, creating savings for the federal government overall and meeting the recent guidance from OMB. To meet that goal, BFS has been established as a new Working Capital Fund service to other agencies.

3. Modify existing government systems - The review looked at systems in place across a number of other agencies. These systems were generally rudimentary and would prove more expensive to modify them than to proceed with the Budget Formulation System development.

What is the impact of NOT funding this investment?

The budgetary information of the agency cannot be formulated without the BFS investment. Thus, the agency and external stakeholders cannot make the appropriate budget decisions without this investment.

Not replacing the legacy system will mean the agency continues to use outdated technology with increasing costs of maintenance, and forgoes the advantages and efficiencies expected from new functionality that is planned. In addition, the agency and the wider federal government would lose the potential benefit of providing a federal shared service in this area.

As noted before, this CPIC provides a transition from the agency's old legacy status to an improved system. The current BAS system has been in production since 1997 and will be retired for the BFS system in 2017.

Does the investment have a Risk Management Plan? Yes

What is the date of the risk management plan? 6/30/2014

Project Execution Data

Projects Table

Projects Table

OMB ID	Project ID	Project Name	Objectives /Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
	000010070A	Budget Formulation System (BFS) - Requirements Gathering	Collect requirements for the new Budget Formulation System and start reaching out to other Agencies who would like to get involved	03/01/2014	07/31/2014	275	Iterative	Jackye Herzfeld	No certification, but with 4 or more years PM experience (within the last five years)	2025644599		herzfeld.jackye@epa.gov	Yes			N/A				Omit Synchronization
	000010070B	Budget Formulation System - Phase 1	Design, develop, and test the Core components of the system	08/01/2014	07/31/2015	1895	Iterative	Jackye Herzfeld	No certification, but with 4 or more years PM experience (within the last five years)	2025644599		herzfeld.jackye@epa.gov	Yes			N/A				Omit Synchronization
	000010070C	Budget Formulation System - Phase 2	Design, develop, and test additional EPA required functionalities	08/01/2015	01/30/2016	772	Iterative	Jackye Herzfeld	No certification, but with 4 or more	2025644599		herzfeld.jackye@epa.gov	Yes			N/A				Omit Synchronization

OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
			es						years PM experience (within the last five years)											
	000010070D	Budget Formulation System - Phase 3	Design, develop, and test additional EPA required functionalities	02/01/2016	06/30/2016	772	Iterative	Jack Herzfeld (retired)	No certification, but with 4 or more years PM experience (within the last five years)	2025644599		herzfeld.jackye@epa.gov	Yes			N/A				Omit Synchronization
	000010070E	Budget Formulation System - Phase 4	Design, develop, and test additional EPA required functionalities	07/01/2016	12/31/2016	780	Iterative	Jack Herzfeld (retired)	No certification, but with 4 or more years PM experience (within the last five years)	2025644599		herzfeld.jackye@epa.gov	Yes			N/A				Omit Synchronization
	00001	Budget	Design,	01/01	06/30	392	Iterative	Jack	No	20256		herzfeld.jack	Yes		06/13/	N/A				Omit

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OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life Cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
	0070F	Formulation System - Phase 5: Doc Prep / Performance Modules	develop, and test additional EPA required functionalities	/2017	/2017		e	ye Herzfeld (retired)	certification, but with 4 or more years PM experience (within the last five years)	44599		ye@epa.gov			2017					Synchronization
	00001 0070G	Budget Formulation System - Phase 6: Doc Prep / Performance / Security Build Out & Scenario Building	Design, develop, and test additional EPA required functionalities	07/01 /2017	12/31 /2017	321	Iterative	Jack ye Herzfeld (retired)	No certification, but with 4 or more years PM experience (within the last five years)	20256 44599		herzfeld.jack ye@epa.gov	Yes		12/28/ 2017	N/A				Omit Synchronization
	00001 0070H	Budget Formulation System - Phase 7: Security Build	Design, develop, and test additional EPA required functionalities	01/01 /2018	06/30 /2018	250	Iterative	Jack ye Herzfeld (retired)	No certification, but with 4 or more years PM	20256 44599		herzfeld.jack ye@epa.gov	Yes		05/04/ 2018	N/A				Omit Synchronization

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OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
		Out & Scenario Building / Core Functionalities / Performance Program Project & Appropriation Linking / Mapping Performance PGs & PIs							experience (within the last five years)											
	0000100701	Budget Formulation System - Phase 8: Core Functionalities Phase 2 / Performance Bidding History /	Design, develop, and test additional EPA required functionalities	07/01/2018	09/30/2018	125	Iterative	Edward Cottrell	No certification, but with 4 or more years PM experience (within the last five years)	2025645002		cottrill.edward@epa.gov	Yes		07/27/2018	N/A				Omit Synchronization

OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
		Original Requirements Phase 1																		
	000010070J	Budget Formulation System Training and Preliminary Data Entry	To get users accustomed to the system, while allowing them to enter data alongside BAS.	10/01/2015	11/30/2017	30	Not Primarily a Software Development Project	Jackye Herzfeld (retired)	No certification, but with 4 or more years PM experience (within the last five years)	2025644599		herzfeld.jackye@epa.gov	N/A			N/A				Omit Synchronization
	000010070K	Original Requirements Phase 2 / System Interface / Budget Execution / Flexible Structure / Crosswalks / Bulk	Design, develop, and test additional EPA functionalities original requirements. We will also finalize work related to areas where execution data is needed/provided since the hosting analysis/ne	10/01/2018	03/30/2019	36	Iterative	Edward Cottrell	No certification, but with 4 or more years PM experience (within the last five years)	2025645002		cottrell.edward@epa.gov	Yes			N/A				Omit Synchronization

OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
		Data Operations / Data Migration	xt steps will impact those tasks (reprogramming, flexible structure and crosswalks, as well as some data management items such as bulk data operations and migration of data from BAS). For performance there will be work related to Performance dashboard, and there is some additional work needed on audit trails and utility forms. These are all part of original requirements set.																	
	00001	Original	Design,	04/01	09/30	36	Iterative	Edw	No	20256		cottrill.edwa	Yes			N/A				Omit

OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life Cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
	0070L	I Requirements Phase 3 / System Interface / Budget Execution / Flexible Structure / Crosswalks / Bulk Data Operations / Data Migration	develop, and test additional EPA functionalities original requirements. We will also finalize work related to areas where execution data is needed/provided since the hosting analysis/next steps will impact those tasks (reprogramming, flexible structure and crosswalks, as well as some data management items such as bulk data operations and migration of data from BAS). For performance there will be work	/2019	/2019		e	ard Cottrell	certification, but with 4 or more years PM experience (within the last five years)	45002		rd@epa.gov								Synchronization

OMB ID	Project ID	Project Name	Objectives / Expected Outcomes	Project Start Date	Project Completion Date	Project Life cycle Cost	SDLC Methodology	PM Name	PM Level of Experience	PM Phone	PM Extension	PM Email	Release Every 6 Months?	Comment	When was the last date that a revised product was deployed to production?	Funded by TMF or IT WCF Funding	Commercial Solution(s) Adoption	Commercial Solution(s) Reasoning	Commercial Solution(s) Costs	Include In OMB Dashboard
			related to Performance dashboard, and there is some additional work needed on audit trails and utility forms. These are all part of original requirements set.																	

Project Activities

Master Cost & Schedule: Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline

* Costs in thousands

This table represents milestones at Work Breakdown Structure level 1

Activity Number	Is Complete	Project **	Activity Name*	Activity Description **	Structure ID**	OMB ID*	Current Baseline									Include In ITDB		
							Total Cost			Start Date			Completion Date					
							Planned **	Projected	Actual	Planned **	Projected	Actual	Planned **	Projected	Actual			

Project and Operational Risks

Risk assessments should include risk information from all stakeholders and should be performed at the initial concept stage and then monitored and controlled throughout the life-cycle of the investment.

Project and Operational Risks

OMB ID	Risk Type	Project	Risk Name	Risk Category	Risk Probability	Risk Impact	Mitigation Plan	Is This Risk Closed?	Include in IT Dashboard
	Operational Risk		Relationship with other financial systems	Dependencies and Interoperability between this investment and others	Low	Low	Maintain and ensure working relationship between BFS and other financial systems	No	Omit Synchronization
	Operational Risk		Security Risks	Security	Low	Low	The Information Security Officer maintains internal controls, security updates, and system security plan	No	Omit Synchronization
	Operational Risk		Server down time	Technology	Low	Low	In case the server goes down, the backup test server will be used, followed by the server in RTP, followed by physically going to Keylogic Systems in Columbia, Maryland.	No	Omit Synchronization
	Operational Risk		Sensitive budget data	Data/Info	Low	Medium	Ensure proper controls are in place and the correct security measures are taken.	No	Omit Synchronization
	Project Risk	Budget Formulation System (BFS) - Requirements Gathering	Scheduled Development Delays Due to Funding	Schedule	Low	Low	Maintain the current BAS system for agency operations	No	Omit Synchronization
	Project Risk	Budget Formulation System (BFS) - Requirements Gathering	Unexpected Personnel Changes	Project resources	Low	High	Replace with personnel who have experience in the development stage of SDLC.	No	Omit Synchronization
	Project Risk	Budget Formulation System (BFS) - Requirements Gathering	Hosting Acquisition Issues	Technology	Medium	High	Use Citrix temporarily, or find another cloud provider.	No	Omit Synchronization

Operational Performance Data

Operational Performance Metrics

Provide results specific metrics which are appropriate to the mission of the investment and its business owner or Customer. Generally these metrics should be provided by the investment's business owner and will reflect performance in the broader business activities and not IT-specific functions. The best results specific metrics will support the business case justification and could be the foundation of a quantitative approach to defining benefits in a cost-benefit analysis. Unlike in private industry where identified benefits accrue to the organization, government benefits may accrue to the public. Therefore, results-specific metrics may demonstrate the value realized external to the Federal Government. The table must include a minimum of two results-specific metrics, one of which should reflect customer results.

Each metric description should help the user understand what is being measured. In this field, describe the units used, any calculation algorithm used, and the definition or limits of the population or "universe" measured.

The unit of measure should be characterized (e.g. number, percentage, dollar value etc) for each metric. Each metric listed in the table must also indicate how often actual measurements will be reported (monthly, quarterly or semi-annually), as well as baseline, targets and actual results. The "Actual for PY" should be final actual measurement from the previous year or the average actual results from the previous year. Describe whether a successful actual measurement would be "over the target" or be "under the target" in "Measurement Condition." "Comment" field is required for performance metrics where target not expected to be met. All data will be displayed on the IT Dashboard.

Operational Performance

OMB ID	Metric ID	Metric Name	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	Target for 2018	Target for 2019	Measurement Condition	Reporting Frequency	Agency Strategic Objective or Priority Goal	Is the Metric Retired?	Include In OMB Dashboard
	A	Financial Actuals Reporting	Financial actuals reporting (e.g. SNC) completed accurately and on time each quarter	Quarterly Reports	Customer Satisfaction (Results)				Over target	Quarterly		No	Omit Synchronization
	C	External Budget Submissions	External budget submissions (OMB) are created and submitted on schedule.	Submissions	Strategic and Business Results				Over target	Annual		No	Omit Synchronization
	D	Final End of Month Actual Results	Compile the final end of month actual results in BAS.	Data Type	Customer Satisfaction (Results)				Over target	Monthly		No	Omit Synchronization
	B	Availability of Cloud	The availability of the Microsoft Azure cloud will need to be available at all times in order for BFS to operational.	Percent	Customer Satisfaction (Results)				Over target	Annual		No	Omit Synchronization
	E	Cloud Costs	The Microsoft Azure cloud is relatively inexpensive, while offering exclusive government services.	Dollars	Financial Performance				Under target	Annual		No	Omit Synchronization

